Lecture 17: trig and some partial fractions

Wednesday, October 1, 2014 12:38 PM

secz=tanz+1 (same deisatue)

Starty pt:
$$\frac{\text{Liner}}{\text{Quadratil}} = \frac{2x-3}{x^2-1}$$

$$\frac{2x-3}{x^2-1} = \frac{A}{x-1} + \frac{B}{x+1} = \frac{x+1}{x+1} \frac{A}{x-1} + \frac{B}{x+1} \frac{x-1}{x-1}$$

$$\frac{2x-3}{x^2-1} = \frac{Ax+A+Bx-B}{(x+1)(x-1)}$$

$$\frac{2x-3}{x^2-1} = \frac{(A+B)x + (A-B)}{x^2-1}$$

$$2 = A + B$$

 $-3 = A - B$

$$\Lambda = -\frac{1}{2}$$

